



346E.US.ST25

SEQUENCE LISTING

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TECH CENTER 1600/2900

<110> ARIAD Gene Therapeutics, Inc.

<120> Chimeric Transcription Factors

<130> 346E.US

<140> 09/407,402

<141> 1999-09-28

<160> 75

<170> PatentIn version 3.0

<210> 1

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<212> PRT

<213> herpes simplex virus 7

<400> 1

Asp Phe Asp Leu Asp Met Leu Gly
1 5

<210> 2

<211> 9

<212> PRT

<213> herpes simplex virus 7

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Asp Phe Asp Leu Asp Met Leu Gly Gly
1 5

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<400> 3

Asp Phe Asp Leu Asp Met Leu Gly
1 5

<210> 4

<211> 18
 <212> PRT
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<400> 4

Asn Phe Leu Gln Leu Pro Gln Gln Thr Gln Gly Ala Leu Leu Thr
 Ser
 1 5 10 15

Gln Pro

<210> 5
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 <212> PRT
 <213> homo sapien

<400> 5

Ser Tyr Gly Gln Gln Ser
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 31

<210> 7
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<210> 8
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33

<210> 9
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<212> DNA
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gcatggatcc gattcaacta gtgttgattc ttttttcttt ctggcggcg
49

<210> 10
<211> 294
<212> DNA
<213> homo sapien

<400> 10
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ccgtc 60

gacaaccagc tgctgaacca gggcatacct gtggcccccc acacaactga gccca
tgctg 120

atggagtacc ctgaggctat aactcgcccta gtgacagggg cccagaggcc ccccg
accca 180

gctcctgctc cactgggggc cccgggggctc cccaatggcc tcctttcagg agatg
aagac 240

ttctcctcca ttgcggacat ggactttctca gccctgctga gtcagatcag ctcc
294

<210> 11
<211> 573
<212> DNA
<213> homo sapien

<400> 11

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tggcc 60

ccggccctc cccaagtctt gccccaggct ccagccctg cccctgctcc agcca
tggtta 120

tcagctctgg cccaggcccc agccctgtc ccagtcctag ccccaggccc tcctc
aggct 180

gtggccccac ctgcccccaa gccaccacag gctggggaag gaacgctgtc agagg
ccctg 240

ctgcagctgc agtttgatga tgaagacctg ggggccttgc ttggcaacag cacag
acca 300

gctgtgttca cagacctggc atccgtcgac aactccgagt ttcagcagct gctga
accag 360

ggcatacctg tggcccccca cacaactgag cccatgctga tggagtaccc tgagg
ctata 420

actcgcctag tgacagccca gaggcccccc gaccagctc ctgctccact ggggg
ccccg 480

gggctcccca atggcctcct ttcaggagat gaagacttct cctccattgc ggaca
tggac 540

ttctcagccc tgctgagtca gatcagctcc taa
573

<210> 12

<211> 36

<212> DNA

<213> synthetic construct

<400> 12

gcatgtctag agagatgtgg catgaaggcc tggaag
36

<210> 13

<211> 35

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<213> synthetic construct

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gcatacactag tcttttgagat tcgtcgggaac acatg
35

<210> 14
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<400> 14
gcacattcta gaattgatac gcccagaccc ttg
33

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cgatcaacta gtaagtgtca atttccgggg cct
33

<210> 16
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gcactatcta gactgaagaa catgtgtgag cacagc
36

<210> 17
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<400> 17
gcactatcta gagtgagcga ggagctgata cgagtg
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<210> 18

<211> 36
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<213> synthetic construct

<400> 18
cgatcaacta gtggaaacat attgcagctc taagga
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<210> 19
<211> 36
<212> DNA
<213> synthetic construct

<400> 19
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36

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atgctctaga ctgggggcct tgcttgcaa c
31

<210> 21
<211> 31
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<213> synthetic construct

<400> 21
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31

<210> 22
<211> 39
<212> DNA
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<400> 22
gcattgatcc gctcaactag tggagctgat ctgactcag

39

<210> 23
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<400> 23
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<210> 24
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 <212> DNA
 <213> synthetic construct

<400> 24
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<210> 25
 <211> 62
 <212> PRT
 <213> synthetic construct

<400> 25

Met	Ala	Ser	Ser	Tyr	Pro	Tyr	Asp	Val	Pro	Asp	Tyr	Ala	Ser	Leu
Gly														
1				5					10					15

Gly	Pro	Ser	Ser	Pro	Lys	Lys	Lys	Arg	Lys	Val	Ser	Arg	Glu	Arg
Pro														
				20				25					30	

Tyr	Ala	Cys	Pro	Val	Glu	Ser	Cys	Asp	Arg	Ile	Asn	Thr	Arg	Glu
Met														
				35				40					45	

Trp	His	Glu	Gly	Leu	Glu	Glu	Arg	Ile	Ser	Lys	Thr	Ser	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

50

55

60

<210> 26
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 <212> DNA
 <213> synthetic construct

<400> 26
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 tggga 60

ggaccttcta gtcctaagaa gaagagaaag gtgtctagag aacgcccata tgctt
 gccct 120

gtcgagtcct gcgaagaatc aacactagag agatgtggca tgaaggcctg gaaga
 cgaat 180

ctcaaagact agttattagg gatcctgag
 209

<210> 27
 <211> 30
 <212> DNA
 <213> synthetic construct

<400> 27
 gaattcctag aagcgaccat ggcttctagc
 30

<210> 28
 <211> 31
 <212> DNA
 <213> synthetic construct

<400> 28
 gaagagaaag gtggctagcg aacgcccata t
 31

<210> 29
 <211> 37
 <212> DNA
 <213> synthetic construct

<400> 29
 atgctctaga agtgtgtcca cctgaagag tgaagac
 37

<210> 30
 <211> 55
 <212> DNA
 <213> synthetic construct

<400> 30
 atgctgatca agatctttat taactagtgc cactgtcgtt cagcatcagg gggat
 55

<210> 31
 <211> 25
 <212> DNA
 <213> synthetic construct

<400> 31
 gccatggtgg ctagcctata gtgag
 25

<210> 32
 <211> 25
 <212> DNA
 <213> synthetic construct

<400> 32
 ggcggtgttg gctagcgtcg gtcag
 25

<210> 33
 <211> 27
 <212> PRT
 <213> synthetic construct

<400> 33

Met Ala Ser Ser Tyr Pro Tyr Asp Val Pro Asp Tyr Ala Ser Leu
 Gly
 1 5 10 15

Gly Pro Ser Ser Pro Lys Lys Lys Arg Lys Val
 20 25

<210> 34
 <211> 123
 <212> DNA
 <213> synthetic construct

<400> 34
 gaattccaga agcgcgtatg gcttctagct atccttatga cgtgcctgac tatgc
 cagcc 60
 tgggaggacc ttctagtcct aagaagaaga gaaaggtgtc tagatatcga ggatc
 ccaag 120
 ctt
 123

<210> 35
 <211> 222
 <212> DNA
 <213> synthetic construct

<400> 35
 gctagctaata gatgggcgct cgagtaatga tgggcggtcg actaatgatg ggcgc
 tcgag 60
 taatgatggg cgtctagcta atgatgggcg ctcgagtaat gatgggcggt cgact
 aatga 120
 tgggcgctcg agtaaatgatg ggcgtctagc taatgatggg cgctcgagta atgat
 ggcgc 180
 gtcgactaat gatgggcgct cgagtaatga tgggcgtcta ga
 222

<210> 36
 <211> 121
 <212> DNA
 <213> synthetic construct

<400> 36
 tctagaacgc gaattccggt aggcgtgtac ggtgggaggt ctatataagc agagc

tcgtt 60

tagtgaaccg tcagatcgcc tggagacgcc atccacgctg ttttgacctc catag
aagct 120

t 121

<210> 37
<211> 141
<212> DNA
<213> synthetic construct

<400> 37
tctagaacgc gaattcaaca ttttgacacc cccataatat ttttccagaa ttaac
agtat 60

aaattgcac tccttggtcaa gaggcccta tcaactctct taatcactac tcaca
gtaac 120

ctcaactcct gccacaagct t
141

<210> 38
<211> 304
<212> DNA
<213> synthetic construct

<400> 38
atcgatgttt tctgagttac ttttgtatcc ccaccccccc tcgagcttgc atgcc
tgcag 60

gtcggagtac tgcctccga gcggagtact gtcctccgag cggagtactg tcctc
cgagc 120

ggagtactgt cctccgagcg gaggactgtc ctccgagcgc agactctaga ggatc
cgaga 180

acattttgac acccccataa tatttttcca gaattaacag tataaattgc atctc
ttgtt 240

caagagttcc ctatcactct cttaatacac tactcacagt aacctcaact cctgc
cacia 300

gctt

304

<210> 39
 <211> 24
 <212> DNA
 <213> synthetic construct

<400> 39
 cccgtggtcc cgcgttgctt cgat
 24

<210> 40
 <211> 306
 <212> DNA
 <213> homo sapien

<400> 40
 ctgggggcct tgcttgga cagcacagac ccagctgtgt tcacagacct ggcat
 ccgtc 60

gacaaactccg agtttcagca gctgctgaac cagggcatac ctgtggcccc ccaca
 caact 120

gagcccatgc tgatggagta ccctgaggct ataactcgcc tagtgacagg ggccc
 agagg 180

ccccccgacc cagctcctgc tccactgggg gccccggggc tccccaatgg cctcc
 ttcca 240

ggagatgaag acttctcctc cattgcggac atggacttct cagccctgct gagtc
 agatc 300

agctcc
 306

<210> 41
 <211> 72
 <212> DNA
 <213> synthetic construct

<400> 41
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cgagt 60

aatgatgggc gt
72

<210> 42
<211> 31
<212> DNA
<213> synthetic construct

<400> 42
atgctctaga gaacgcccat atgcttgccc t
31

<210> 43
<211> 34
<212> DNA
<213> synthetic construct

<400> 43
atgcgcggcc gccgcctgtg tgggtgcgga tgtg
34

<210> 44
<211> 33
<212> DNA
<213> synthetic construct

<400> 44
atgcgcggcc gcaggaggaa gaaacgcacc agc
33

<210> 45
<211> 49
<212> DNA
<213> synthetic construct

<400> 45
gcatggatcc gattcaacta gtgttgattc ttttttcttt ctggcggcg
49

<210> 46
<211> 30
<212> DNA
<213> synthetic construct

<400> 46
tcagtctaga ggagtgcagg tggaaaccat
30

<210> 47
<211> 40
<212> DNA
<213> synthetic construct

<400> 47
tcagggatcc tcaataacta gtttcagtt ttagaagctc
40

<210> 48
<211> 28
<212> DNA
<213> synthetic construct

<400> 48
actgtctaga gtcagcctgg gggacgag
28

<210> 49
<211> 43
<212> DNA
<213> synthetic construct

<400> 49
gcatggatcc gattcaacta gtcccaccgt actcgtcaat tcc
43

<210> 50
<211> 31
<212> DNA
<213> synthetic construct

<400> 50

atgctctaga ctgggggcct tgcttggcaa c
31

<210> 51
<211> 39
<212> DNA
<213> synthetic construct

<400> 51
gcatggatcc gctcaactag tggagctgat ctgactcag
39

<210> 52
<211> 10
<212> PRT
<213> synthetic construct

<400> 52

Ser	Arg	Asp	Phe	Asp	Leu	Asp	Met	Leu	Gly
1				5					10

<210> 53
<211> 31
<212> DNA
<213> synthetic construct

<400> 53
atgctctaga gatgagtttc ccaccatggt g
31

<210> 54
<211> 39
<212> DNA
<213> synthetic construct

<400> 54
gcatggatcc gctcaactag tggagctgat ctgactcag
39

<210> 55
<211> 25

<212> DNA
<213> synthetic construct

<400> 55
ctagagactt cgacttggac atgct
25

<210> 56
<211> 29
<212> DNA
<213> synthetic construct

<400> 56
agtccccag catgtccaag tcgaagtct
29

<210> 57
<211> 35
<212> DNA
<213> synthetic construct

<400> 57
gggggacttc gacttggaca tgctgactag ttgag
35

<210> 58
<211> 31
<212> DNA
<213> synthetic construct

<400> 58
gatcctcaac tagtcagcat gtccaagtcg a
31

<210> 59
<211> 31
<212> DNA
<213> synthetic construct

<400> 59
atgctctaga gacggggatt ccccgggggcc g
31

<210> 60
<211> 43
<212> DNA
<213> synthetic construct

<400> 60
gcatggatcc tcattaacta gtcccaccgt actcgtcaat tcc
43

<210> 61
<211> 41
<212> DNA
<213> synthetic construct

<400> 61
ctagagacac cagtgccctg ctggacctgt tcagcccctc g
41

<210> 62
<211> 43
<212> DNA
<213> synthetic construct

<400> 62
ggtcaccgag gggctgaaca ggtccagcag ggcactgggtg tct
43

<210> 63
<211> 41
<212> DNA
<213> synthetic construct

<400> 63
gtgaccgtgc ccgacatgag cctgcctgac cttgacagca g
41

<210> 64
<211> 41
<212> DNA
<213> synthetic construct

<400> 64
 gtgaccgtgc ccgacatgag cctgcctgac cttgacagca g
 41

<210> 65
 <211> 13
 <212> PRT
 <213> homo sapien

<400> 65
 Ser Arg Asp Phe Ala Asp Met Asp Phe Asp Ala Leu Leu
 1 5 10

<210> 66
 <211> 14
 <212> PRT
 <213> homo sapien

<400> 66
 Asp Leu Asp Ser Ser Leu Ala Ser Ile Gln Glu Leu Leu Ser
 1 5 10

<210> 67
 <211> 11
 <212> PRT
 <213> homo sapien

<400> 67
 Ser Arg Ser Tyr Gly Gln Gln Gly Ser Gly Ser
 1 5 10

<210> 68
 <211> 18
 <212> PRT
 <213> synthetic construct

<400> 68
 Asp Phe Asp Leu Asp Met Leu Gly Asp Phe Asp Leu Asp Met Leu
 Gly 1 5 10 15

Ser Arg

<210> 69
 <211> 25
 <212> DNA
 <213> synthetic construct

<220>
 <221> N
 <222> (7)..(7)
 <223> Where N ("X" in the specification) represents 0, 1 or
 2 nucleotid
 es, being A, G, T and/or C

<400> 69
 agatctngat gagtttccca ccatg
 25

<210> 70
 <211> 25
 <212> DNA
 <213> synthetic construct

<220>
 <221> N
 <222> (7)..(7)
 <223> Where N ("X" in the specification) represents 0, 1 or
 2 nucleotid
 es, being A, G, T and/or C

<400> 70
 ggatccngga gctgatctga ctcag
 25

<210> 71
 <211> 26
 <212> DNA
 <213> synthetic construct

<400> 71
tctagaaaaa agttcaataa agtcag
26

<210> 72
<211> 24
<212> DNA
<213> synthetic construct

<400> 72
actagtgcag tacagatgaa gttg
24

*all
cyclic*
<210> 73
<211> 18
<212> DNA
<213> synthetic construct

<400> 73
cactagttaa ctaagtaa
18

<210> 74
<211> 24
<212> DNA
<213> synthetic construct

<400> 74
tctagagatg agtttcccac catg
24

<210> 75
<211> 24
<212> DNA
<213> synthetic construct

<400> 75
actagtggag ctgatctgac tcag
24